

Listing of Claims:

This listing of claims will replace all prior versions, and listing of claims in the application.

1-4. (Cancelled)

5. (Currently Amended) ~~The bench of claim 1~~ A cast bench for holding laser components comprising:

a base having a top surface; and

a plurality of optical component supports cast with and integral with said base and extending from said top surface, said optical component supports being positioned to support optical components;

wherein said bench is provided with rigidity by cast support struts integral with said base, said cast support struts being spaced to form at least a first support region and a second support region, said first support region having support struts spaced more closely together than the support struts of said second support region.

6. (Cancelled)

7. (Currently Amended) ~~The bench of claim 1~~ A cast bench for holding laser components comprising:

a base having a top surface;

a plurality of optical component supports cast with and integral with said base and extending from said top surface, said optical component supports being positioned to support optical components; and

at least one aperture cast into said bench through said top surface of said base, said aperture being adapted to accept conduits therethrough for connection to components mounted on said bench.

8. (Original) The bench of claim 7 further comprising at least one conduit guide beneath said top surface of said bench for routing said conduits beneath said top surface.

9-17. (Cancelled)

18. (Previously presented) An optical mounting system comprising:

a cast base;

a plurality of optical component supports cast with and integral with said cast base and extending outwardly from a top surface of said cast base;

a plurality of support struts integral with said base and spaced beneath said top surface of said cast base to form a first region and a second region of said cast base, the support struts providing rigidity to said cast base, said first region having said support struts spaced more closely together than the support struts of said second region; and

kinematic mount components provided in said top surface of said cast base at said first region of said cast base.

19. (Previously presented) An optical mounting system comprising:

a cast base;

a plurality of optical component supports cast with and integral with said cast base and extending outwardly from said top surface of said cast base;

a plurality of support struts integral with said base and spaced beneath said top surface of said cast base to form a first region and a second region of said cast base, said first region having said support struts spaced more closely together than the support struts of said second region;

and

kinematic mount components provided in said top surface of said cast base at said first region of said cast base;

a main oscillator mounted on said kinematic mount components; and

a gain module mounted on said base at said second region, wherein an aperture is included through said top surface of said base for accepting at least one conduit from said main oscillator and at least one conduit guide beneath said top surface of said base for guiding said conduit.

20. (Original) The optical mounting system of claim 18 wherein at least one of said optical component supports is a customizable optical component support cast with additional material for machining into a customized optical component mount.